EVALUATING EXPRESSIONS

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with the TI-84+ Graphing Calculator

In this lesson, you will use the TI-84+ graphing calculator to evaluate an algebraic expression given values for one or more variables using grouping symbols and/or exponents less than four.

# Example 1

Evaluate the expression, when ***a* = 1** and ***b* = 8**

**Procedure:**

1. To store the value **1** to the variable ***a***, press

BorderBorderBorderBorderBorder

Repeat the process to store the value **8** to the variable ***b***

2. To enter the expression , press

BorderBorderBorderBorderBorderBorderBorderBorderBorderBorderBorder

3. Press Borderand the answer **4** will appear on the calculator screen.

## Example 2

Evaluate the expression 6 + , when ***x* = 7** and ***y* = 3**

1. To store the value **7** to the variable ***x***, press

BorderBorderBorderBorder (if using variable ***x*** you can use the Borderkey)

Repeat the process to store the value **3** to the variable ***y***

1. To enter the expression6 + , press

BorderBorderBorderBorderBorderBorderBorderBorderBorderBorder

1. PressBorderand the answer **9** will appear on the calculator screen.

Now you try it.

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Evaluate each expression if ***a* = 6**, ***b* = 3**, and ***c* = 7**.

1. a2 + 22
2. 2b3 – 4
3. ca – ab
4. 4a – (b + c)
5. 5c + 5b
6. 
7. 2c + 3a + 6b
8. 
9. 9a – (4b + 2c)
10. 
11. 
12. 12b - 
13. a2 + b3 + c
14. ( a + b + c )2
15. 